

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

31780

7590

01/14/2004

ERIC ROBINSON
PMB 955
21010 SOUTHBANK ST.
POTOMAC FALLS, VA 20165

EXAMINER OSORIO, RICARDO

ART UNIT PAPER NUMBER

2673

DATE MAILED: 01/14/2004

APPLICATION NO.	PLICATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO. CONFIRMATION NO.	
09/394,345	09/13/1999	ICHIRO TAKAYAMA	0756-2028	4089

TITLE OF INVENTION: ACTIVE MATRIX TYPE FLAT-PANEL DISPLAY DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	04/14/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax

(703) 746-4000

INSTRUCTIONS: This f appropriate. All further coindicated unless corrected maintenance fee notification	orrespondence including the F I below or directed otherwise	mitting the ISSUE FE atent, advance orders in Block I, by (a) spec	EE and PUBLIC and notification cifying a new co	ATION FEE (if roof maintenance ferrespondence add	required). Blocks I through 4 ses will be mailed to the current ress; and/or (b) indicating a sep	should be completed where t correspondence address as arate "FEE ADDRESS" for		
CURRENT CORRESPONDE	NCE ADDRESS (Note: Legibly mark-up	with any corrections or use Blo	ock I)	Note: A certificate	e of mailing can only be used f This certificate cannot be used	or domestic mailings of th		
				oapers. Each addu	IONAL BARCE Such as an accionm	ent or tormal drawing muc		
· // /	7590 01/14/2004			have its own certif	icate of mailing or transmission.			
ERIC ROBINSO	NC	٠		Certificate of Mailing or Transmission				
PMB 955				I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile				
21010 SOUTHBA				addressed to the	Mail Stop ISSUE FEE address USPTO, on the date indicated be	above, or being facsimil		
POTOMAC FAL	LS, VA 20163		1	turismitted to the	osi 10, on the date indicated oc	(Depositor's name)		
						(Signature)		
						(Date)		
APPLICATION NO.	FILING DATE	FIRST	NAMED INVENT	OR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/394,345	09/13/1999	ICH	IRO TAKAYAN	1A	0756-2028	4089		
TITLE OF INVENTION:	ACTIVE MATRIX TYPE FLA	AT-PANEL DISPLAY	DEVICE			•		
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		ISSUE FEE	PU	BLICATION FEE	TOTAL FEE(S) DUE	DATE DUE		
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EXA	MINER	ART UNIT	CL.	ASS-SUBCLASS				
OSORIO	, RICARDO	2673		345-080000				
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CFR 1.363).		na	mes of up to 3	registered pater	nt attorneys or 1			
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been previously submit	ted to the USPTO or is being s	ubmitted under separate	cover. Completi	on of this form is	of assignee data is only appropri NOT a substitute for filing an ass	ate when an assignment na signment.		
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Please check the appropria	te assignee category or categor	ies (will not be printed	on the patent);	☐ individual	a corporation or other private g	roup entity 🚨 governmen		
4a. The following fee(s) ar	e enclosed:	4b. Payı	ment of Fee(s):	-				
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Publication Fee		□ Pa	syment by credit	ard. Form PTO-2	038 is attached.			
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Director for Patents is requ	ested to apply the Issue Fee an	d Publication Fee (if an	y) or to re-apply	any previously pa	id issue fee to the application ide	entified above.		
(Authorized Signature)		(Date)						
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NOTE; The Issue Fee a	nd Publication Fee (if require	d) will not be accepted	d from anyone					
other than the applicant interest as shown by the r	; a registered attorney or age records of the United States Pa	nt; or the assignee or ent and Trademark Off	other party in ice.					
obtain or retain a benefit application. Confidential	nation is required by 37 CFR t by the public which is to fill ity is governed by 35 U.S.C. I	e (and by the USPTO 22 and 37 CFR 1.14. Th	to process) an					
estimated to take 12 min	utes to complete, including ga orm to the USPTO. Time will	thering, preparing, and	submitting the					
case. Any comments of	n the amount of time you r	equire to complete thi	s form and/or			•		
suggestions for reducing Patent and Trademark	n the amount of time you re this burden, should be sent to Office, U.S. Department of SEND FEES OR COMPLE	o the Chief Information of Commerce. Alexan	n Officer, U.S. I Idria, Virginia					
22313-1450. DO NOT SEND TO: Commissions	SEND FEES OR COMPLE or for Patents, Alexandria, Virg	TED FORMS TO THI	IS ADDRESS.		•			
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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION N	10. F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/394,345 09/13/1999		09/13/1999	ICHIRO TAKAYAMA	0756-2028	4089	
31780 7590 01/14/2004		01/14/2004		. EXAM	IINER	
ERIC ROBINSON			OSORIO.	OSORIO. RICARDO		
PMB 955 21010 SOUTHBANK ST.				ART UNIT	PAPER NUMBER	
POTOMAC	FALLS, VA	20165		2673	Н б	
		DATE MAILED: 01/14/200				

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)			
	00/304 345	TAKAYANA ET AL			
Notice of Allowability	09/394,345 Examiner	TAKAYAMA ET AL. Art Unit			
•		·			
	RICARDO L OSORIO	2673			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS			
 This communication is responsive to 10-27-2003. The allowed claim(s) is/are 11-32. The drawings filed on are accepted by the Examine Acknowledgment is made of a claim for foreign priority ur All b) Some* c) None of the: Certified copies of the priority documents have 	nder 35 U.S.C. § 119(a)-(d) or (f).				
2. Certified copies of the priority documents have	e been received in Application No	·			
 Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	cuments have been received in this	national stage application from the			
5. Acknowledgment is made of a claim for domestic priority un reference was included in the first sentence of the specifical	ation or in an Application Data Sheet	ional application) since a specific t. 37 CFR 1.78.			
 (a) The translation of the foreign language provisional a 6. Acknowledgment is made of a claim for domestic priority unin the first sentence of the specification or in an Application 	nder 35 U.S.C. §§ 120 and/or 121 si	ince a specific reference was included			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	f this communication to file a reply contribution. THIS THREE-MOI	omplying with the requirements noted NTH PERIOD IS NOT EXTENDABLE.			
7. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER es reason(s) why the oath or declara	'S AMENDMENT or NOTICE OF ation is deficient.			
8. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-	948) attached			
1) 🗌 hereto or 2) 🔲 to Paper No					
(b) ☑ including changes required by the proposed drawing correction filed 13 January 2003, which has been approved by the Examiner.					
(c) including changes required by the attached Examiner's	s Amendment / Comment or in the C	Office action of Paper No			
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).					
9. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T	sit of BIOLOGICAL MATERIAL r HE DEPOSIT OF BIOLOGICAL MA	must be submitted. Note the TERIAL.			
Attachment(s)					
1 Notice of References Cited (PTO-892)	5☐ Notice of Informal Pa	atent Application (PTO-152)			
2 Notice of Draftperson's Patent Drawing Review (PTO-948)	6⊠ Interview Summary (PTO-413), Paper No. <u>45</u> .			
3⊠ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No. 41	^{3),} 7⊠ Examiner's Amendm	ent/Comment			
4 Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's Statemer 9⊡ Other .	nt of Reasons for Allowance			

U.S. Patent and Trademark Office PTOL-37 (Rev. 11-03)



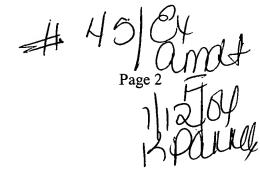
Application No.	Applicant(s)		
09/394,345	TAKAYAMA ET AL.		
Examiner	Art Unit		
RICARDO L OSORIO	2673		

Interview Summary	19/394,345 TAKAYAWA ET AL.			
interview dammary	Examiner	Art Unit		
·	RICARDO L OSORIO	2673		
All participants (applicant, applicant's representative, PTO	personnel):			
(1) <u>RICARDO L OSORIO</u> .	(3)			
(2) <u>ERIC J. ROBINSON</u> .	(4)			
Date of Interview: <u>12 January 2004</u> .				
Type: a)⊠ Telephonic b)□ Video Conference c)□ Personal [copy given to: 1)□ applicant 2	²)∏ applicant's representative	e]		
Exhibit shown or demonstration conducted: d) Yes If Yes, brief description:	e)⊠ No.			
Claim(s) discussed: <u>11-44</u> .				
Identification of prior art discussed: N/A.				
Agreement with respect to the claims f)⊠ was reached. g)□ was not reached. h)□ N	J/A.		
Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: <u>Applicant's representative agreed to examiner's amendment cancelling withdrawn claims 33-44</u> .				
(A fuller description, if necessary, and a copy of the amend allowable, if available, must be attached. Also, where no callowable is available, a summary thereof must be attached	opy of the amendments that w	reed would rende vould render the	er the claims claims	
THE FORMAL WRITTEN REPLY TO THE LAST OFFICE A INTERVIEW. (See MPEP Section 713.04). If a reply to the GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR FORM, WICHEVER IS LATER, TO FILE A STATEMENT O Summary of Record of Interview requirements on reverse si	last Office action has already THE MAILING DATE OF THI F THE SUBSTANCE OF THE	been filed, APP S INTERVIEW S	LICANT IS UMMARY	
Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.	Examiner's sign	ature, if required		

Application/Control Number: 09/394,345

Art Unit: 2673

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1. Appellant's arguments in Appeal Brief filed on 10-27-2003 are persuasive and, therefore, the finality of the previous office action is withdrawn.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Eric Robinson on January 11, 2004.

The application has been amended as follows:

Cancel claims 33-44.

Allowable Subject Matter

3. The following is an examiner's statement of reasons for allowance: Claims 11-32 are allowable since, as pointed out by appellant, in Appeal Brief filed on 10-27-2003, certain key features of the claimed invention are not taught or fairly suggested by the prior art. In claims 11, 14, 17, 21, and 24, a circuit for driving said first thin film transistors, said circuit comprising third thin film transistors formed over said substrate. The closest prior art, Utsugi (5,670,792) and Fischer (3,885,196) disclose the claimed first and second thin film transistor circuit configuration, however, either singularly or in combination, fail to anticipate or render the above underlined limitations obvious.

Application/Control Number: 09/394,345

Art Unit: 2673

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ricardo L. Osorio whose telephone number is (703) 305-2248. The examiner can normally be reached on Mon-Thu from 7:00 AM-6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala, can be reached at 305-4938.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to: (703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Ricardo L. Osorio Examiner

Art Unit: 2673

RLO January 11, 2004

> BIPIN SHALWALA SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600